

843ER-A

SILVER COATED COPPER EPOXY CONDUCTIVE PAINT (PART A)

Safety Data Sheet

Section 1: Identification

Product Identifier and Other Means of Identification

Product Identifier: 843ER-A

Other Means of Identification: Super Shield[™] Silver Coated Copper Epoxy Conductive Paint (Part A)

Related Part # 843ER-250ML, 843ER-800ML, 843ER-3.25L

Recommended Use and Restriction on Use

Use: Electrically conductive epoxy coating resin for use with hardeners

Uses Advised Against: Not available

Details of Manufacturer or Importer

Manufacturer MG Chemicals 1210 Corporate Drive Burlington, Ontario L7L 5R6 CANADA

MG Chemicals (Head Office) 9347-193 Street Surrey, British Columbia V4N 4E7 CANADA

a	+1-800-340-0772	2	+1-905-331-1396
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E-MAIL	support@mgchemicals.com	E-MAIL	info@mgchemicals.com
WEB	www.mgchemicals.com		

E-MAIL (Competent Person): sds@mgchemicals.com

Emergency Phone Number

For hazardous material incidents ONLY (leaks, spills, fires, exposures or accidents) USA or CANADA—Call Verisk 3E at **+1-866-519-4752** or **+1-760-476-3962** (Service access code: 335388)

For emergencies involving the transport of dangerous goods; 24/7 service CANADA—Call CANUTEC collect at **+1-613-996-6666** or ***666** on cellular phones

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Section 2: Hazard(s) Identification

Classification of Hazardous Chemical

GHS Categories

Criteria		Category	Signal Word	Pictograms
Flammable Liquid		2	Danger	Flame
Eye Damage		1	Danger	Corrosion
Sensitization	Skin	1	Warning	Exclamation
Skin Irritation		2	Warning	Exclamation
Specific Target Organ Toxicity	Single Exposure	3	Warning	Exclamation
Hazardous to the Aquatic Environment	Chronic	1	Warning	Environment

Note: The degree of severity is ranked within each hazard class from 1 (Highest Severity) to up to 5 (Lowest Severity), which is opposite to HMIS and NFPA conventions. Severity category rankings do not allow comparisons between classes.

Label Elements

Signal Word	DANGER	
Pictograms	Hazard Statements	
	H225: Highly flammable liquid and vapour	
	H318: Causes serious eye damage	
•	H315: Causes skin irritation	
	H317: May cause an allergic skin reaction	
	H336: May cause drowsiness or dizziness	

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Pictograms	Hazard Statements	
	H410: Very toxic to aquatic life with long lasting effects	
Prevention	Precautionary Statements	
P102	Keep out of reach of children.	
P210	Keep away from heat, hot surfaces, sparks, flames, and other ignition sources. No smoking.	
P233	Keep container tightly closed.	
P240	Ground and bond container and receiving equipment.	
P241	Use explosion-proof equipment.	
P243	Take action to prevent static discharges.	
P261	Avoid breathing mist, vapors, and spray.	
P271	Use only outdoors or in a well-ventilated area.	
P272	Contaminated work clothing should not be allowed of the workplace.	
P280	Wear protective gloves and eye protection.	
P264	Wash hands thoroughly after handling.	
P273	Avoid release to the environment.	
Response	Precautionary Statements	
P370 + P378	In case of fire: Use dry chemical, carbon dioxide, chemical foam, or water spray to extinguish.	
P303 + P361 + P364 + P352	IN ON SKIN (or hair): Take off immediately all contaminated clothing and wash it before reuse. Wash skin with plenty of water.	
P333 + P313	If skin irritation or rash occurs: Get medical advice or attention.	
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P310	Immediately call POISON CENTER or doctor.	
P304 + P340 + P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTRE or doctor if you feel unwell.	
P391	Collect spillage.	

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Storage	Precautionary Statements
P403 + P233	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
Disposal	Precautionary Statements
P501	Dispose of contents in accordance to local, regional, national, and international regulations.

Hazards Not Otherwise Classified

Other Criteria	Hazard Statements/Precautionary Statement	Signal Word	Pictograms
Defats skin	Repeated exposure may cause skin dryness or cracking.	None	None
Argyria	Long term exposure to silver powder or compounds can lead to an irreversible blue-grey discoloration of the skin.	None	None

Section 3: Composition/Information on Ingredients

CAS #	Chemical Name	%(weight)
78-93-3	butan-2-one ^{a)}	42%
7440-50-8	copper	22%
25068-38-6	bisphenol-A epoxy resin (reaction product)	19%
71-36-3	1-butanol	5%
67-63-0	propan-2-ol ^{b)}	5%
7440-22-4	silver	3%
14807-96-6	talc	2%

a) Also known as methyl ethyl ketone (MEK)

b) Also known as isopropyl alcohol (IPA)

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Section 4: First-Aid Measures			
Exposure Condition	GHS Code/Symptoms/Precautionary Statements		
IF ON SKIN	P303 + P361 + P352, P333 + P313, P363		
Immediate Symptoms	redness, irritation, dry skin, allergic contact dermatitis		
Response	Take off immediately all contaminated clothing. Wash skin with plenty of water.		
	If skin irritation or rash occurs: Get medical advice or attention.		
	Wash contaminated clothing before reuse.		
IF IN EYES	YES P305 + P351 + P338, P310		
Immediate Symptoms redness, pain, eye damage			
Response	Rinse cautiously with water for at least 30 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.		
	Immediately call POISON CENTER or doctor.		
IF INHALED	P304 + P340 + P312		
Immediate Symptoms	drowsiness, dizziness, cough, headaches, nausea, unconsciousness		
Response	Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTRE or doctor if you feel unwell.		
IF SWALLOWED	P301 + P330, P331		
Immediate Symptoms	nausea, sore throat, diarrhea, drowsiness, dizziness		
Response IF SWALLOWED: Rinse mouth. Do NOT induce vomiting			

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Section 5: Fire-Fighting Measures

Extinguishing Media	In case of fire: Use dry chemical, carbon dioxide, chemical foam, or water spray to extinguish.
	Use water spray to cool containers.
Specific Hazards	Produces irritating toxic fumes in fires or in contact with hot surfaces.
	The vapors are heavier than air and may accumulate in low- lying areas. Vapors may travel long distances and ignite at an ignition source, which can cause a flashback or an explosion.
Combustion Products	Produces carbon oxides (CO,CO ₂) and metal oxide fumes.
Fire-Fighter	Wear self-contained breathing apparatus and full fire-fighting turn-out gear.

Section 6: Accidental Release Measures

Personal Protection	See personal protection recommendations in Section 8.
Precautions for Response	Avoid breathing mist, spray, and vapors. Remove or keep away all sources of extreme heat or open flames.
Environmental Precautions	Avoid releasing to the environment. Prevent spill from entering drains and waterways.
Containment Methods	Contain with inert absorbent (such as soil, sand, vermiculite).
Cleaning Methods	Collect liquid in a sealable, solvent-resistant container. Sprinkle inert absorbent compound onto spill, then sweep into the container. Wash spill area with soap and water to remove the last traces of residue.
Disposal Methods	Dispose of spill waste according to Section 13.

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Section 7: Handling and Storage

Prevention	Keep out of reach of children.
	Keep away from heat, hot surfaces, sparks, flames, and other ignition sources. No Smoking.
	Keep container tightly closed.
	Ground and bond container and receiving equipment. Use explosion- proof equipment. Take action to prevent static discharges.
	Avoid breathing mist, vapors, and spray. Use only outdoors or in a well- ventilated area.
	Contaminated work clothing should not be allowed out of the workplace.
	Avoid release to the environment.
Handling	Wear protective gloves and eye protection.
	Take off contaminated clothing and wash it before reuse.
	Wash hands thoroughly after handling.
	Collect spillage.
Storage	Store in a well-ventilated place. Keep cool.
	Store locked up.

Section 8: Exposure Controls/Personal Protection

Substances with Occupational Exposure Limit Values

Chemical Name	Country/ Provinces	Long Term Exposure Limits (PEL)	Short Term Exposure Limits (STEL)
butan-2-one	ACGIH	200 ppm	300 ppm
	U.S.A. OSHA PEL	200 ppm	Not established
	Canada AB	200 ppm	300 ppm
	Canada BC	50 ppm	100 ppm
	Canada ON	200 ppm	300 ppm
	Canada QC	50 ppm	100 ppm
copper	ACGIH	1 mg/m ³	Not established
(dust and mist)	U.S.A. OSHA PEL	1 mg/m ³	Not established
	Canada AB	1 mg/m ³	Not established
	Canada BC	1 mg/m ³	Not established
	Canada ON	1 mg/m ³	Not established
	Canada QC	1 mg/m ³	Not established

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Chemical Name	Country/ Provinces	Long Term Exposure Limits (PEL)	Short Term Exposure Limits (STEL)
1-butanol	ACGIH	20 ppm	Not established
	U.S.A. OSHA PEL	100 ppm	Not established
	Canada AB	20 ppm	Not established
	Canada BC	15 ppm	30 ppm (Ceiling)
	Canada ON	20 ppm	Not established
	Canada QC	50 ppm (Ceiling)	Not established
propan-2-ol	ACGIH	200 ppm	400 ppm
	U.S.A. OSHA PEL	400 ppm	Not established
	Canada AB	200 ppm	400 ppm
	Canada BC	200 ppm	400 ppm
	Canada ON	200 ppm	400 ppm
	Canada QC	400 ppm	500 ppm
silver	ACGIH	0.1 mg/m ³	Not established
(metal dust, mist)	U.S.A. OSHA PEL	0.01 mg/m ³	Not established
(metal)	Canada AB	0.1 mg/m ³	Not established
(Ag and its compounds)	Canada BC	0.01 mg/m ³	0.03 mg/m ³
(metal, dust, fumes)	Canada ON	0.1 mg/m ³	Not established
	Canada QC	0.1 mg/m ³	Not established
talc	ACGIH	2 mg/m ³	Not established
(without asbestos fibers)	U.S.A. OSHA PEL	20 mppcf ^{a)}	Not established
	Canada AB	2 mg/m ³	Not established
	Canada BC	2 mg/m ³	Not established
	Canada ON	2 mg/m ³	Not established
	Canada QC	3 mg/m ³	Not established

Note: Ingredients are listed in descending weight contribution order (from greatest to least). The ACGIH¹, OSHA (Table Z-1), and Canadian provinces exposure limits were consulted. Limits from the RTECS database² and from suppliers' SDS were also consulted. Short term exposure limits (STEL) are for 15 min and long term permissible exposure limits (PEL) for 8 h.

a) Millions of particles per cubic foot air, based on impinge samples counted by light-field technique.

Engineering Controls

Ventilation

Keep airborne concentrations below the occupational exposure limits (OEL).

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Personal Protective Equipment

Eye protection	Wear appropriate protective eyeglasses or chemical safety goggles.
	RECOMMENDATION: Ensure that glasses have side shields for lateral protection.
Skin Protection	For likely contacts, use of protective butyl rubber, fluorinated rubber, or other chemically resistant gloves.
	For incidental contacts, use nitrile, neoprene, PVC gloves, or other chemically resistant gloves.
Respiratory Protection	For over-exposures up to 10 x OEL of mist/vapors/spray, wear respirator such as a half-mask respirator with organic vapor cartridges.
	Above 10 x OEL, use a positive-pressure, air-supplied respirator or a self-contained breathing apparatus.
	RECOMMENDATION: Consult your local safety supply store to ensure your respirator has filter cartridges appropriate for the ingredients listed in section 3 of this SDS, and that the respirator is fitted to the employee by a professional.

General Hygiene Considerations

Wash hands thoroughly with water and soap after handling.

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Section 9: Physical and Chemical Properties

Physical State	Liquid	Lower Flammability Limit ^{b)}	1.8%
Appearance	Light brown metallic	Upper Flammability Limit ^{b)}	10%
Odor	Acetone-like	Vapor Pressure @20 °C	53 hPa [40 mmHg]
Odor Threshold	Not available	Vapor Density ^{c)}	≥2.1 (Air =1)
рН	Not available	Relative Density @25 °C	1.19
Freezing/Melting Point	Not available	Solubility in Water	Partially soluble
Initial Boiling Point ^{a)}	≥80 °C [≥176 °F]	Partition Coefficient n-octanol/water	Not available
Flash Point ^{a)}	≥-3 °C [≥26.6 °F]	Auto-ignition Temperature ^{d)}	≥343 °C [≥649 °F]
Evaporation Rate	Not available	Decomposition Temperature	Not available
Flammability	Flammable	Viscosity @25 °C	30 mm²/s

a) Values based on butan-2-one component.

b) Lower and Upper Explosive Limits of mixture calculated using Le Chatelier principle and component LFL and UFL limits

c) Values based on propanol-2-ol component.

d) Values based on 1-butanol component.

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Section 10: Stability and Reactivity

Reactivity	Not available
Chemical Stability	Chemically stable at normal temperatures and pressures
Conditions to Avoid	Ignition sources, excessive heat, and incompatible substances
Incompatibilities	Oxidizing agents, strong acids, and strong bases
Polymerization	Will not occur
Decomposition	Will not decompose under normal conditions. For thermal decomposition, see combustion products in Section 5.

Section 11: Toxicological Information

Summary of Effects and Symptoms by Routes of Exposure

Eyes Causes redness, pain and eye damage.

Skin Causes redness, irritation, dry skin, or allergic contact dermatitis.

Inhalation May cause drowsiness, dizziness, cough, headaches, nausea, and unconsciousness.

Ingestion May cause nausea, sore throat, and diarrhea (see inhalation symptoms.)

Chronic Prolonged or repeated exposure may cause skin dryness, cracking, as well as defatting the skin. Exposure to silver powder may also cause argyria, an irreversible blue-grey discoloration of the skin.

Acute Toxicity (Lethal Exposure Concentrations)

Chemical Name	LD50	LD50	LC50
	oral	dermal	inhalation
butan-2-one	2 737 mg/kg	6 480 mg/kg	23 500 mg/m ³
	Rat	Rabbit	8 h Rat
copper	>5 000 mg/kg	Not	Not
	Mouse	available	available
bisphenol-A epoxy resin	>2 000 mg/kg	>2 000 mg/kg	Not
(reaction product)	Rat	Rat	available

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Chemical Name	LD50	LD50	LC50
	oral	dermal	inhalation
1-butanol	790 mg/kg	3 400 mg/kg	>24 000 mg/m ³
	Rat	Rabbit	Rat
propan-2-ol	3 600 mg/kg	12 800 mg/kg	16 000 ppm
	Rat	Rabbit	8 h Rat
silver	>5 g/kg	≥2 000 mg/kg	5.16 mg/L
	Guinea Pig	Rabbit	4 h (dust) Rat
talc	Not	Not	Not
	available	available	available

Note: Toxicity data from the RTECS² and ECHA databases were consulted. Data from supplier SDS were also consulted.

Other Toxicological Effects

Skin corrosion/irritation	Bisphenol-A and 1-butanol are known skin irritants.
Serious eye damage/irritation	Butan-2-one, bisphenol-A, 1-butanol, and propan-2-ol are known serious eye irritants.
Sensitization (allergic reactions)	The epoxy resin component (CAS# 25068-38-6) may cause skin sensitization in humans.
Carcinogenicity (risk of cancer)	Based on available data, the classification criteria are not met.
Mutagenicity (risk of heritable genetic effects)	Based on available data, the classification criteria are not met.
Reproductive Toxicity (risk to sex functions)	Based on available data, the classification criteria are not met.
Teratogenicity (risk of fetus malformation)	Based on available data, the classification criteria are not met.
STOT-single exposure	Butan-2-one, 1-butanol, and propan-2-ol can affect the central nervous system by inhalation causing drowsiness or dizziness.
STOT-repeated exposure	Based on available data, the classification criteria are not met.

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Aspiration hazard

Based on available data, the classification criteria are not met. There is less than 10% category 1 components.

Section 12: Ecological Information

Ecological classifications are based on the IMDG/GHS criteria in conjunction with ecotoxicological data from our suppliers, the European Chemical Agency database (<u>http://echa.europa.eu</u>), and other reliable sources.

Contains silver and copper particles of less than a 1 mm but more than 100 nm (larger than nanoparticles), which release ionic silver and ionic copper levels that are very toxic to the environment. While massive silver and copper are insoluble in water, their powders are considered sufficiently soluble to give rise to an ecological hazard by EU regulators. The classification that follows takes into account to chronic aqueous toxicity of category 1 (M = 10 for silver and M = 1 for copper) of the EU.

The epoxy resin (CAS# 25068-38-6) have a LC50 for aquatic organisms 1 mg/L to 10 mg/L.

Butan-1-ol is not classifiable as an environmental toxicant with minimal LC50 96 h of 1 840 mg/L for Pimephales promelas (fathead minnow); and LC40 48 h of 44 mg/L, EC50 72 h of 648 mg/L Daphnia magna (water flea).

Based on available data, propan-2-ol and butan-2-one (MEK) do not meet the environmental toxicant classification with LC50 and EC50 >100 mg/L.

- Propan-2-ol has a minimal LC50 96 h of 9 640 mg/L for Pimephales promelas (fathead minnow); an EC50 24 h of 5 102 mg/L Daphnia magna (water flea); and an EC50 72 h of 2 000 mg/L Desmodesmus subspicatus (green algae).
- Butan-2-one has a minimal LC50 96 h of 400 mg/L for Pimephales promelas (fathead minnow); LC50 48 h of >520 mg/L and EC50 48 h of 13 500 mg/L for Daphnia magna (water flea).

Acute Ecotoxicity

See chronic ecotoxicity

Chronic Ecotoxicity

Category 1 Very toxic to aquatic life with long lasting effects Avoid release to the environment. Collect spillage.

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Biodegradability

Not readily biodegradable

Other Effects

Actual VOC (Volatile Organic Compounds) content according to the US (EPA) and Canadian (CEPA) authorities.

VOC = 52% [627 g/L]

Section 13: Disposal Information

Dispose of contents in accordance with all local, regional, national, and international regulations.

Section 14: Transport Information

Ground

Refer to TDG regulations (Canadian Transportation of Dangerous Goods regulations); **USA CFR 49 Regulations** (Parts 100 to 185).

Siz	es 5 L and under
	t A of 843ER-250ML, 843ER-800ML, 8ER-3.25L kits
Lin	nited Quantity

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Air

 Refer to ICAO-IATA Dangerous Goods Regulations.

 Sizes 1 L and under

 Part A of 843ER-250ML, 843ER-800ML

 Limited Quantity

 Y

 Part A of 843ER-3.25L kit

 UN number: UN1139

 Shipping Name: COATING

 SOLUTION

 Class: 3

 Packing Group: II

 Marine Pollutant: Yes

 Sea

 Refer to IMDG regulations.

 Sizes 5 L and under

 Part A of 843ER-250ML, 843ER-800ML,

 843ER-3.25L kits

 Limited Quantity

 Imited Quantity
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Note: Shipper must be appropriately <u>trained and certified</u> before involvement with the transport of dangerous goods.

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Section 15: Regulatory Information

Canada

Domestic Substance List (DSL) / Non-Domestic Substance Lists (NDSL)

All hazardous ingredients are listed on the DSL.

Hazardous Products Act (R.S.C., 1985, c. H-3)

The safety data sheet and label comply with the Hazardous Product Act and WHMIS 2015.

USA

Other Classifications

HMIS® RATING

HEALTH:	*	2
FLAMMABILITY:		3
PHYSICAL HAZARD:		0
PERSONAL PROTECTION:		

NFPA® 704 CODES



Approximate HMIS and NFPA Risk Ratings Legend:

0 (Low or none); 1 (Slight); 2 (Moderate); 3 (Serious); 4 (Severe)

CAA (Clean Air Act, USA)

This product does not contain any class 1 ozone depleting substances.

This product does not contain any class 2 ozone depleting substances.

This product does not contain substances that are listed as hazardous air pollutants.

EPCRA (Emergency Planning and Right to Know Act, USA, 40 CFR 372.45)

This product contains silver (CAS# 7440-22-4; reportable quantity = 1 000 lb), copper (CAS# 7440-50-8; reportable quantity = 5 000 lb), n-butanol (CAS# 67-63-0; reportable quantity = 5 000 lb), and propan-2-ol (CAS# 67-63-0), which are subject to the reporting requirements of section 313 Title III of the SARA of 1986 and 40 CFR part 372.

This product contains butan-2-one (CAS# 78-93-3, reportable quantity = 5 000 lb), which can be subject to the CERCLA reporting requirements.

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TSCA (Toxic Substances Control Act of 1976, USA)

All substances are TSCA listed.

California Proposition 65 (Chemicals known to cause cancer or reproductive toxicity, USA).

This product does not contain any substances known to be listed in California.

Europe

RoHS (Restriction of Hazardous Substances Directive)

This product does not contain any lead, cadmium, mercury, hexavalent chromium, PBB's, PBDE's, DEHP, BBP, DBP, or DIBP and complies with European RoHS regulations.

WEEE (Waste Electrical and Electronic Equipment Directive)

This product is not a piece of electrical or electronics equipment, and is therefore not governed by this regulation.

Section 16: Other Information

SDS Prepared by	MG Chemicals' Regulatory Department
Date of Review	14 April 2020
Supersedes	03 March 2020
Reason for Changes:	Update to the product name.

Reference

1) ACGIH 2017 TLVs and BEIs: Based on the documentation of the threshold limit values for chemical substances and physical agents & biological exposure indices, American Conference of Governmental of Industrial Hygienist Cincinnati, OH (2017).

2) All toxicological data were checked against the RTECS (Registry of Toxic Effects of Chemical Substances®)

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Abbreviations

- ACGIH American Conference of Governmental Industrial Hygienists (USA)
- ECHA European Chemicals Agency
- EU European Union
- EC50 Half maximal effective concentration
- EL50 Half maximal effective loading
- IARC International Agency for Research on Cancer
- NOELR No observable effect loading ratio
- NTP National Toxicology Program
- GHS Globally Harmonized System of Classification of Labeling of Chemicals
- LC50 Lethal Concentration 50%
- LCLo Lowest published lethal concentration
- LD50 Lethal Dose 50%
- OEL Occupational Exposure Limit
- PEL Permissible Exposure Limit
- SDS Safety Data Sheet
- STEL Short-Term Exposure Limit
- TCLo Lowest published toxic concentration
- TWA Time Weighted Average
- VOC Volatile Organic Content

Technical Queries Contact us regarding any questions, improvement suggestions, or problems with this product. Application notes, instructions, and FAQs are located at <u>www.mgchemicals.com</u>.

Email: support@mgchemicals.com

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Disclaimer This safety data sheet is provided as an information resource only. *M.G. Chemicals, Ltd.* believes the information contained herein is accurate and compiled from reliable sources. It is the responsibility of the user to query and verify any information seeming suspect where doubt on the validity may exist. The buyer assumes all responsibility of using and handling the product in accordance with local, regional, national, and international regulations.

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